Reviews

Testing for Metallurgical Processes. By JAMES A. BARR. San Francisco: The Mining and Scientific Press; London: The Mining Magazine, 1910. Pp. 216. $2.00 delivered.

This book, which is based on a course of lectures given by Mr. Barr at the Michigan College of Mines, is a laboratory manual for the student of metallurgy and for the mining engineer. The treatment differs from that of the textbooks on metallurgy in that the methods for testing are fully treated and minute details for many of the operations are given. It is designed not to take the place of the textbooks on metallurgy but to supplement them. The subjects treated include amalgamation, chlorination, cyaniding, concentration, smelting, calculation of lead and copper slags, cost data, etc. The treatment, while condensed, is exceptionally clear. The work should be appreciated by students, mining chemists, and engineers. W. H. E.

Economic Theory with Special Reference to the United States. By HEINRICH RIES. 3d ed. New York: Macmillan, 1910. Pp. 589.

The third edition of this work is revised and greatly amplified. The treatment of the non-metallic minerals, which covers about 300 pages, is well arranged, and the data are clearly presented. The coal fields of the United States are described in considerable detail and the occurrences of other hydrocarbons are mentioned or briefly described. Chapters are devoted to building stones, clays, limes and cements, salines, gypsum, fertilizers, abrasives, minor non-metallic minerals, and underground waters. The illustrations and text figures are well chosen and clearly executed. The references are numerous, but are placed at the end of each chapter, a practice which, though saving space, renders them less accessible to the reader or student. The treatment of the metals is superior to that of previous editions. Although the book is intended primarily as a text, it should serve a useful purpose as a work of reference to the engineer or geologist who wishes general information regarding the occurrence and uses of certain minerals and the literature of the subject. W. H. E.